

**ABSTRACT**

Discoveries are disclosed that show particular aspects of recombinant DNA technology can be used successfully to produce a hitherto unknown type of human Platelet-Derived Growth Factor (PDGF) receptor protein free of other PDGF receptors. These proteins can be produced from DNA segments in cells in various functional forms. These forms variously enable biochemical and functional studies of these novel receptors as well as production of antibodies. Means are described for determining the level of expression of genes for specific types of PDGF receptor proteins, for example, by measuring mRNA in cells with PDGF receptor type-specific DNA probes or by measuring antigen in biological samples with type-specific antibodies.